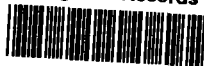




✓ 7/27/2000
ha

July 7, 2000

EPA Region 5 Records Ctr.



379530

Via Facsimile and Certified Mail
Return Receipt Requested

Mr. Kevin Adler, Remedial Project Coordinator
U.S. Environmental Protection Agency, Region 5
Office of Superfund, Remedial & Enforcement Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Note:
pilot test
results due
8/5/2000

Subject: Granville Solvents Site Removal Action Quarterly Report - Second Quarter 2000

Dear Mr. Adler:

On behalf of the Granville Solvents Site PRP Group, Metcalf & Eddy of Ohio, Inc. respectfully submits the Quarterly Report for the Removal Action at the Granville Solvents Site. Copies have been sent to the following individuals:

Mr. Steve Acree, U.S. EPA
Mr. Peter Felitti, U.S. EPA
Mr. Fred Myers, Ohio EPA
Mr. Joe Hickman, Manager, Village of Granville

If you have questions regarding this submittal, please contact Michael Raimonde or me at (614) 890-5501.

Respectfully,

METCALF & EDDY OF OHIO, INC.

Gerald R. Myers
Vice President/Project Coordinator

cc: B. Pfefferle, Chairman - GSS PRP Group
M. Raimonde, M&E

**GRANVILLE SOLVENTS SITE
REMOVAL ACTION QUARTERLY REPORT
FOR APRIL, MAY, AND JUNE 2000**

JULY 2000

Pursuant to the requirement set forth in the Administrative Order by Consent (AOC, September 7, 1994) between the U.S. EPA and the Granville Solvents Site (GSS) Potentially Responsible Parties (PRP) Group, in Section 2.5-Reporting, and the letter, dated November 14, 1996, from Ms. Diane Spencer (U.S. EPA), this report constitutes the quarterly written progress report concerning actions undertaken pursuant to the AOC.

I. PROGRESS MADE DURING REPORTING PERIOD

Source Area Groundwater Control

The groundwater pumping and treatment system operated 720 hours in April, 739 hours in May, and 744 hours in June, for a total of 2,203 ^{hours} (99.77 % of the total time available) during the second quarter of 2000. Since operation of the treatment system began in December 1994, the system has been operating over 98.2% of the available time.

During the second quarter of 2000, the treatment system processed approximately 10.71 million gallons of water in April, 10.37 million gallons of water in May and 10.36 million gallons of water in June, for a total of 31.44 million gallons of water for the second quarter of 2000. Since operation began in December 1994, the system has processed more than 659.04 million gallons of water.

On May 17, 2000, M&E acid-washed the air-stripping treatment system. During the second quarter of 2000, M&E collected monthly air pressure measurements in the air-stripping unit's inlet and exhaust ducts, which were used to calculate airflow values. Following acid washing, airflow increased from 1,903 cfm to 2,270 cfm. M&E continued to perform the scheduled monthly maintenance on the treatment system. This maintenance ensures the system is performing at maximum efficiency and decreases unscheduled downtime. This maintenance included replacing the bag filters, lubricating the transfer pump and blower motors, and maintaining the flow meters and level sensors.

Water samples were collected from the system's influent and effluent sampling ports on April 18, May 18 and June 21, 2000. The analytical results are presented in Table 1.

TABLE 1

VOCs	Influent April	Effluent April	Influent May	Effluent May	Influent June	Effluent June
1,1,1-trichloroethane	14.8 µg/l	ND	17.0 µg/l	ND	20.7 µg/l	ND
cis-1,2-dichloroethene	4.00 µg/l	ND	4.0 µg/l	ND	3.6 µg/l	0.19 J µg/l
Tetrachloroethene	23.2 µg/l	ND	19.5 µg/l	ND	19.6 µg/l	ND
Trichloroethene	24.2 µg/l	ND	23.9 µg/l	ND	25.2 µg/l	0.40 J µg/l
1,1-dichloroethylene	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND

Extraction well GSS-EW1 was operated at an average flow rate of approximately 148 gallons per minute (gpm) during the second quarter of 2000. The flow rate from GSS-EW2 averaged 85 gpm over the quarter. The total pumping rate has averaged 233 gpm for the second quarter of 2000.

The results of the sample analyses listed in Table 1 represent typical influent and effluent concentrations at the GSS, and M&E has recorded that approximately 31.44 million gallons of water were processed for the second quarter of 2000. Based on these data, total VOCs of approximately 0.23 lb/day in April, 0.23 lb/day in May, and 0.24 lb/day in June were discharged to the atmosphere during this reporting period.

Groundwater Monitoring Plan

Groundwater level measurements were collected on April 18, May 18, and June 21, 2000, as specified in the Groundwater Monitoring Plan and they are used to develop potentiometric surface maps. The annual groundwater sampling was conducted on May 16, 17, and 18. The final analytical results for this sampling have not been received from the laboratory.

Source Area Soils

Pilot tests were conducted for pneumatic fracturing-enhanced soil vapor extraction during the second quarter of this year in accordance with the April 14, 2000 Pilot Test Work Plan. Preliminary Pilot Test Results were provided to the U.S. EPA on May 25, 2000 along with an Addendum to the Pilot Test Work Plan to accommodate the initial findings of the pilot test and an extension of the pilot test activities. A series of tests were conducted over a 37-day period between April 27 and June 2, 2000 on the clay-rich near surface soils. The pilot test demonstrated and investigated the use of pneumatic fracturing technology and soil vapor extraction on these clay-rich soils. The pilot test was expanded to include a series of tests conducted on the sand unit

underlying the surface clay unit. The soil vapor extraction testing is still in progress in the sand unit to gather data necessary for the design of the full-scale system.

Active or Completed Tasks

The following specific tasks were completed during the reporting period:

- Conducted pilot testing in accordance with the Pilot Test Work Plan and the Addendum.
- Collected water samples on April 18, May 18, and June 21, 2000, from the treatment system influent and effluent sampling ports.
- Collected water level measurements on April 18, May 18, and June 21, 2000.
- Collected ground water samples from the groundwater monitoring well network.
- Continued to collect airflow data on a monthly basis.

II. DELIVERABLES (CURRENT PERIOD AND NEXT PERIOD)

CURRENT PERIOD:

<u>Deliverable</u>	<u>Due Date</u>	<u>Delivered</u>
Pilot Test Work Plan	April 15, 2000	April 14, 2000
Preliminary Pilot Test Results and Work Plan Addendum	n/a	May 25, 2000
Quarterly Report	July 7, 2000	July 7, 2000

NEXT PERIOD:

<u>Deliverable</u>	<u>Due Date</u>
Quarterly Report	October 7, 2000
Pilot Test Report	August 15, 2000



III. DIFFICULTIES ENCOUNTERED AND REMEDIAL ACTIONS TAKEN THIS PERIOD

Conditions encountered during the execution of the pilot test were different than expected. Modifications to the test design were made in the field to achieve the objectives set in the April 14, 2000 Pilot Test Work Plan. Preliminary pilot test results report were submitted to the EPA on

May 25, 2000 along with an Addendum to the Pilot Test Work Plan to accommodate the different conditions and expand the scope of the pilot test work.

IV. ANTICIPATED ACTIVITIES DURING NEXT REPORTING PERIOD

During the next reporting period, M&E will perform the following tasks:

- Collect potentiometric surface data on a monthly basis.
- Sample the treatment system influent and effluent water on a monthly basis.
- Perform scheduled maintenance of the treatment system.
- Prepare a Pilot Test Report.
- Begin design for the Soil Removal Action. ✓ (SVE)